DERWENT-

1987-181873

ACC-NO:

DERWENT-

198726

WEEK:

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TITLE:

Water-contg. plaster - comprising polyacrylate monovalent salt, hydrophilic polymer having carboxyl gps., aluminium

salt, poly:ol, etc.

PATENT-ASSIGNEE: NITTO ELECTRIC IND CO[NITL]

PRIORITY-DATA: 1985JP-0251733 (November 8, 1985)

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE PAGES MAIN-IPC

JP 62111918 A May 22, 1987 N/A

007 N/2

APPLICATION-DATA:

PUB-NO

APPL-DESCRIPTOR APPL-NO

APPL-DATE

JP 62111918A N/A

1985JP-0251733 November 8, 1985

INT-CL

A01N025/10, A61K007/46 , A61K009/70 , A61K049/00 ,

(IPC):

A61L015/06

ABSTRACTED-PUB-NO: JP 62111918A

BASIC-ABSTRACT:

Plaster contains, as main components, polyacrylate monovalent salt and water in an amt. of 20-80 wt.*, hydrophilic polymers which have carboxyl gp., aluminium salts, polyhydric alcohols and drugs for percutaneous absorption.

Usable polyacrylate monovalent salts are those whose wt. average molecular wt. is more than 1000000 and whose stoichiometrical neutralised ratio is 50-100%. Pref. content of polyacrylate

10/26/2006, EAST Version: 2.0.3.0

monovalent salts is 3-30 wt.%. Pref. content. of Al salts is 0.005-0.2 wt.%.

USE/ADVANTAGE - The structure of gel is rigid and shape of gel is kept at higher temp.. Because of the richness of water content, coolness is kept for a long time and the effect of percutaneous drug is maintained. Adhesion to the skin is good and safety is higher than plaster using epoxy crosslinking agent or urethane crosslinking agent. Because of high content of polyhydric alcohols, either lipophilic or hydrophilic drug can be dissolved.

CHOSEN-

Dwg.0/0

DRAWING:

TITLE-TERMS: WATER CONTAIN PLASTER COMPRISE POLYACRYLATE MONOVALENT SALT HYDROPHILIC POLYMER CARBOXYL GROUP ALUMINIUM SALT

POLY OL

DERWENT-CLASS: A14 A96 B07 D22 P34

CPI-CODES: A04-F04; A12-V01; A12-V03A; B04-C03B; B05-A01B; B12-M02D; D09-C04B;

D09-C04

CHEMICAL-CODES: Chemical Indexing M1 *01* Fragmentation Code H7 H714 H721 J0 J011 J1 J171 M210 M212 M262 M281 M320 M423 M430 M510 M520 M530 M540 M630 M782 M903 M904 M910 R021 R041 V0 V742 Specfic Compounds 06726M Registry Numbers 87140 1286M

Chemical Indexing M2 *02* Fragmentation Code A313 A940 A960 C710 C730 M411 M417 M430 M782 M903 R021 R041 Registry Numbers 87140 1286M

Chemical Indexing M6 *03* Fragmentation Code M903 R021 R041 R111 R210 R263 Registry Numbers 87140 1286M

UNLINKED-DERWENT-REGISTRY-NUMBERS: ; 1845U

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0231 0402 0409 2001 2512 3250 2585 2604 2628 3252 2669

2766 3286

Multipunch

Codes:

014 04- 074 075 076 231 24- 331 501 504 52& 525 532 533

535 54& 541 542 55& 551 560 566 575 583 589 597 600 645

688

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1987-075773

10/26/2006, EAST Version: 2.0.3.0

Non-CPI Secondary Accession Numbers: N1987-136078

10/26/2006, EAST Version: 2.0.3.0





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In Reply Please Quote Our Reference

Your Ref

: MJ/JOL/AA/PAT/8120607/SG

Our Ref

: 2005026687/051121/TMBYX/5684

Date

: 21/11/2005

Writer's Direct Line:

DREW & NAPIER LLC P.O. BOX 152 ROBINSON ROAD SINGAPORE 900302

Dear Sir.

Singapore Patent Application No.: 200502668-7

Title of invention: ADHESIVE COMPOSITION FOR DERMAL PATCH AND PRODUCTION

PROCESS THEREOF

Applicant(s): SHOWA DENKO K.K. (JP)

INVITATION TO RESPOND TO WRITTEN OPINION

We forward with this letter a copy of the Written Opinion dated 13th October 2005 drawn up by the Examiner in connection with your request for a Search and Examination Report.

You are invited to respond to the opinion by submitting:

(a) Written submissions or arguments disagreeing with the Examiner's opinion and/or

(b) An amendment of the specification of the application.

If you intend to respond, the response <u>must</u> be filed within <u>5 months</u> from the date of this letter. You are also advised to inform us early if you do not intend to respond.

The Examiner will proceed to establish the Examination Report if no response is received by the end of the prescribed period.

If you have any further queries, please do not hesitate to contact the undersigned.

Thank you.

Yours faithfully,

JUSTIN BEN YU XUAN for REGISTRAR OF PATENTS SINGAPORE

cc:

IP AUSTRALIA POBOX 200WODEN ACT 2606

A stotutory board of the Ministry of Law







AUSTRALIAN PATENT OFFICE



WRITTEN OPINION

		Date of mailing	1 7 007 2000	
Applicant's or agent's file reference		day/month/year	1 3 OCT 2005	
MJ/JOL/AA/PAT/8120607/SG		REPLY DUE within FIVE MONTHS of the date of the Registrar's letter enclosing the written opinion		
Application No. Application Filing I		ate (day/month/year)	Priority Date (day/month/year)	
SG 200502668-7	29 October 2003		30 October 2002	
International Patent Classification (IPC) (as Int. CL. A61K 9/70, 31/485, 31/196		n report)		
SḤOWA DENKO K.K. (JP)				
1. This first written opinion consists of a	total of 4 sheets.			
2. This opinion contains indications relating	ng to the following item	s:.		.
I X Basis of the opinion				
II Non-establishment of opi	nion with regard to nov	velty, inventive step an	d industrial applicability	
III Lack of unity of invention	n			
IV X Reasoned statement with citations and explanations	regard to novelty, inver	ntive step or industrial	applicability;	
V Certain documents cited		•	5696 MA CONTROLS 2002	
VI Certain defects in the appl	lication		•	
VII X Certain observations on the	ne application	•		
3. This opinion is based upon the assumption	on that the priority clair	n is valid.	•	
4. The search report used was issued by the	European Patent O	ffice, and the date of co	ompletion is: 11 March 2004	
5. If no reply is filed, the examination repor	t will be established on	the basis of this opinion	on.	
6. The date by which the examination report	t will be established is:	30 January 2007	•	
Name and mailing address	1	Authorized Officer		一
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustralia.gov.au				
Facsimile no. 61 2 62853929	ı	V.L. KING		

AUSTRALIAN PATENT OFFICE

WRITTEN OPINION

Application No.

SG 200502668-7

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AUSTRALIAN PATENT OFFICE

WRITTEN OPINION

Application No. SG 200502668-7

IV. Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

	Statement
1.	Statement

•		
Novelty (N)	Claims 6, 8-10, 12	YES
	Claims 1-5, 7, 11, 13	NO
Inventive step (IS)	Claims 6, 8-10, 12	YES
	Claims 1-5, 7, 11, 13	NO
Industrial applicability (IA)	Claims 1 - 13	YES
	· Claims	NO

2. Citations and explanations

Consideration was restricted to the following documents cited in the Search Report:-

D1 EP 1046395

(D2 EP 0788794

D3 EP-0879597

D4 US 5607690

D5 US 6039971

NOVELTY(N) Claims 1-5, 7, 11, 13

Claim 1 defines an aqueous adhesive composition comprising a poly(meth)acrylate in the ammonium or alkali metal salt form (optionally poly(meth)acrylic acid is also present), a polyhydric alcohol and an aluminium compound. The composition is suitable for use as a dermal patch. The water content is 5-30%. As discussed on page 12, a water content higher than 30% impairs the solubility of medicaments (listed on pages 17-22) in the composition, thereby decreasing their diffusion and lowering absorption into the skin. Claim 13 defines a process for producing such a composition.

Closely-related art appears in each of the above citations but most of the compositions described contain water at a level higher than the limit of 30%. However, the composition for topical use on page 4 of D1 contains sodium polyacrylate, 40% sorbitol as polyhydric alcohol, aluminium glycinate as aluminium compound and the water content is within the required range of 5-30%. Additional features defined in dependant claims are also to be found in this citation.

Consequently, claims 1-5, 7, 11 and 13 lack novelty compared to this citation.

INVENTIVE STEP(IS) Claims 1-5, 7, 11, 13

In view of the above, claims 1-5. 7. 11 and 13 also lack an inventive step when compared to D1.

AUSTRALIAN PATENT OFFICE Application No. WRITTEN OPINION SG 200502668-7 VII. Certain observations on the application The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

N	The claimed invention is patentable according to Section 13(2); or		
	The claimed invention is unpatentable according to Section 13(2) because:	•	
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